

Introduction

Congratulations on your choice of WizCom's state-of-the-art *Reading Pen II*™! Now you can scan a wide variety of printed English texts and have the words you scanned read quickly aloud to you.

For easy reading, a large-type image of the word you scanned appears on the display. You can choose to have *Reading Pen II* read or spell the word aloud through its built-in speaker or through the earphone included in the package. You can adjust the volume, pitch and speed of the reading voice to suit your specific needs. Or you can view the dictionary definitions for each entry.

With *Reading Pen II*, you can scan entire lines of text, then view each word and hear it read aloud. *Reading Pen II* also contains cross-reference capabilities that enable you to select a word in the definition and look that word up in the dictionary. The selected word is displayed in large type. You can have *Reading Pen II* read it aloud and display its definitions.

The menu options allow you to customize many of *Reading Pen II*'s features. For example, you can switch *Reading Pen II* to left-handed use and choose whether menus are displayed as text, icons or both.

Reading Pen II offers you a wealth of opportunities for making reading a more enjoyable and satisfying experience. If you have any questions about this product or

how to use it, please feel free to call us toll free at 888-777-0552. Or send us a message at one of the following:

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Acton, MA 01720

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Conventions

The following conventions are used in this manual:

- Menus and menu options are displayed in bold type (e.g., the **Information** option in the **Main Menu**).
- In the instructions, the word “select” means “scroll to ... and press **⏏**”. For instance, “Select **Information**” means to “press **⬆** to scroll to **Information**, then press **⏏**”.
- Sections of this manual referred to by their specific name are written in italics (e.g., the section *Learning To Scan*).

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Getting Started

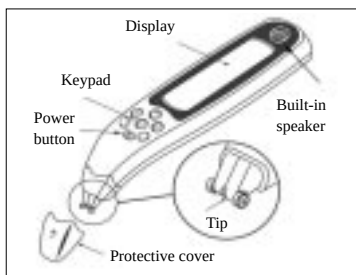
Package contents

Before using your *Reading Pen II*, take time to check the package contents to make sure that you have received all the following items. If anything is missing, contact your *Reading Pen II* dealer.

- *Reading Pen II* unit (in protective case)
- *Reading Pen II* case with Opticard sticker on the bottom
- Two AAA batteries
- Earphone + adaptor
- Registration card
- Operation manual
- QuickStart guide, with Quick Reference table

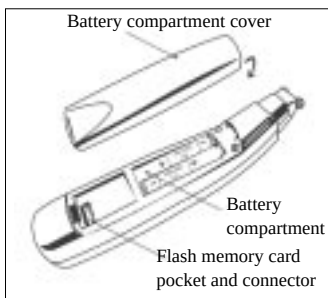
Familiarizing Yourself With *Reading Pen II*

Your *Reading Pen II* contains the following parts:

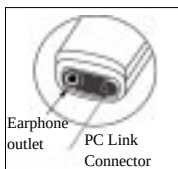


Getting Started

- Tip
- Protective cover
- Power button
- Keypad
- Display
- Built-in speaker



- Battery compartment cover
- Battery compartment
- Flash memory card pocket and connector*



- Earphone outlet
- PC link connector*

Setting up Your *Reading Pen II*

Step A. Insert Batteries

1. Remove the battery compartment cover from the back of *Reading Pen II*.
2. Insert two AAA batteries (included in packaging) in the correct direction.
3. Replace the battery compartment cover.

Step B. Remove Protective Cover

Before scanning, always remove the protective cover from the tip so that the electronic eye is exposed. Always replace the cover when you have finished scanning, to avoid damage.

Standard *Reading Pen II* Functions

The keypad contains seven buttons for operating your *Reading Pen II*. Use the buttons as follows to perform standard *Reading Pen II* functions:

Long-Press

A long press on **ENT** pronounces the highlighted word (see p. 16 for details). To long-press a button, depress the button and hold it down briefly. For instructions on how to adjust the duration of the long press, see p. 32.

Navigating Menus and Lists

To select a menu or option:

1. Scroll through the menu, using **▲** or **▼** until the item you want is highlighted.
2. Press **ENT**.

Getting Started

To select an entry from a list:

1. Scroll through the list, using ▲ or ▼ until the entry you want is highlighted.
2. Press **ENT**.

To return to the previous menu level from a sub-menu, option or list, press **ESC**.

To select a command button on the display:

1. Use the arrow keys to scroll to the button. The button is highlighted.
2. Press **ENT**.

Error Messages

An error message appears whenever an error occurs during operation of your *Reading Pen II*. E.g., an error message appears if you scan a line of text too quickly. To close the message, press **ENT** or **ESC**.

Scanning Limitations

The *Reading Pen II* allows you to scan printed text 6-22 points in size (up to 8mm) in a wide variety of fonts and in all colors on contrasting backgrounds except:

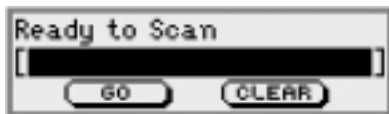
- red on white
- white on red
- blue on black
- black on blue

Learning To Scan

This section takes you step by step through the process of scanning text into *Reading Pen II*.

Step A. Turn Reading Pen II On

Before scanning, remove the protective cover from the tip and press **⏻** to turn on *Reading Pen II*. The Input screen appears. A red light blinks in the tip, signifying that you are ready to scan.



Input screen

Note: The red light should blink each time you are about to scan. If the light does not blink, turn your *Reading Pen II* off, then on again.

Step B. Switch to Left-Handed Use (Optional)

If you are left-handed, switch *Reading Pen II* to left-handed use prior to scanning:

1. Press **ESC**. The **Reading Pen Menu** appears.
2. Scroll to **Pen Main Menu**, using **▼**, then press **ENT**.
3. Scroll to the **Preferences** menu, then press **ENT**.
4. Scroll to the **Right-/Left-Handed** option, then press **ENT**.
5. With the **Left-Handed** option displayed, press **ENT**. The text on the display turns 180°.

Getting Started

6. To return to the dictionary, press **ESC** twice, then press **ENT**.

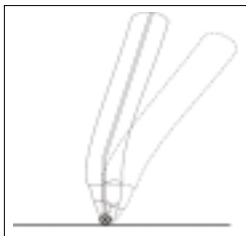
Note: Scanning instructions are the same for left-handed users.

Step C. Scan a Word

1. Place the rollers about 1/2 inch (1 cm) before the beginning of the word 'has' in the sample text below:

Reading has never been so easy.

2. Hold *Reading Pen II* with the *tip* at a 75°-90° angle from the word 'has', with the rollers lightly touching the page.



3. Scan gently from left to right, or from right to left. Make sure to keep the center of *Reading Pen II*'s tip aligned with the center of the letters in the word while you scan.

Tip: Keep the side of your hand on the scanning surface while scanning.

4. When the rollers have passed the end of the word 'has', lift *Reading Pen II* off the page. The word appears in the display in large type.



has

Step D. Rescan Inaccurate Text (Optional)

If the scanned text contains errors, such as a character that was not recognized correctly, rescan the text according to Step C above.

Scanning a Line of Text

Reading Pen II enables you to scan an entire line of text, such as a sentence or a series of words on one line. You can then display each word you scanned in the Large-Type screen, hear the word read aloud and view its definitions.

Follow the basic scanning instructions above for holding *Reading Pen II* when scanning a line of text:

1. Place the rollers about 1/2 inch (1 cm) before the beginning of the first word in the line of text.

Reading has never been so easy.

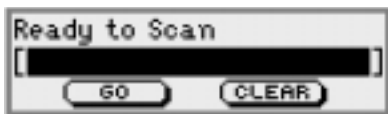
2. Scan gently from left to right, or from right to left. Make sure to keep the center of *Reading Pen II*'s tip aligned with the center of the letters in the line of

- text while you scan.
3. When the rollers have passed the last word in the line, lift *Reading Pen II* off the page. The first word in the line of text you have scanned appears in the Large-Type screen.

Reading Pen II Basics

Input Screen

When you turn on *Reading Pen II*, the Input screen appears. You can start scanning in the word or words you want to read.



Input screen

Reading Pen II displays the word you scanned in large type

Note: The Input screen contains a highlighted input field and two buttons, **GO** and **CLEAR**. These features are not used for initial scanning. They are explained later in this manual under Advanced Features.

Large-Type Screen

The Large-Type screen displays a single word in large type. It appears after you scan in a word.



Large-Type screen

When the Large-Type screen is displayed, *Reading Pen II* can perform the following functions:

Read the Word Aloud

Press **ENT** to hear *Reading Pen II* read the word aloud.

Press **ENT** to hear the word again.

***Note:** If you activate the **Auto Speak** function, *Reading Pen II* automatically reads the word aloud after displaying it in the Large-Type screen. Press **ENT** to hear the word again. (See page 26 for instructions on activating the **Auto Speak** function.)*

Spell the Word Aloud

Press **▶** to hear *Reading Pen II* spell the word aloud.

Divide the Word into Syllables

Press **▲** to divide the word into syllables.



Large-Type screen displaying syllable breaks

Press  to reconnect the syllables.

Display the Definitions

Press  to display the definitions of the word. The Dictionary screen appears. This screen is explained in detail below.

Select a Different Word in the Line of Text

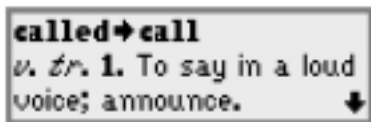
If you have scanned more than one word, press  to display the Word Selection screen. This screen displays all the text you scanned so that you can select a different word to view in large type and hear read aloud. The Word Selection screen is explained in the section *Word Selection Screen* on p. 17.

Return to Input Screen

If you have scanned in only one word, press  to display the Input screen.

Dictionary Screen

The Dictionary screen displays the definitions of the word you scanned. If the scanned word is not a dictionary entry, but a derivative of one, then the corresponding dictionary entry appears.



Dictionary screen

(Displaying corresponding dictionary entry)

To display the Dictionary screen and view the definitions, press ∇ from the Large-Type screen. (If you have scanned a line of text, the method of displaying the definition of the selected word is explained in the section *Word Selection Screen* on p. 17.)

The Dictionary screen allows you to scroll up and down so that you can view an entire definition quickly. You can determine whether the screen scrolls one, two or three lines at a time by changing the **Line(s) per scroll** option under **Preferences** in the **Reading Pen Menu** (See p. 27 for details).

In addition you can:

- Press ESC to display the Input screen if you scanned a single word.
- Press ESC to display the Word Selection screen if you scanned a line of text.
- Press ENT to activate highlight mode. This enables you to hear the definition read aloud or look up the meaning of a word in the definition.

You can scan again while in the Dictionary screen. The current text is overwritten.

Highlight Mode

Highlight mode in the Dictionary screen enables you to scroll through the definitions word by word. You can highlight a word for *Reading Pen II* to read aloud or to look up the meaning of a word in the definition.

1. Scroll to the definition, or section of the definition, you want to explore.
2. Press **ENT**. The first word or letter in the definition is highlighted. You can then scroll across, down or up through the definition by pressing **▶**, **◀**, **▼** or **▲**. As you scroll, the word you are on is highlighted. You can now:
 - Press **ENT** to display the highlighted word in the Large-Type screen. Now you can perform any of the Large-Type screen functions for the selected word.
 - Long-press **ENT** to hear the highlighted word read aloud.
3. To deactivate highlight mode, press **ESC**.

Cross-Reference

When the Dictionary screen is in highlight mode, you can look up the meaning of any word in the definition:

1. Press **ENT** to activate highlight mode.
2. Scroll to the word you want to cross-reference.
3. Press **ENT**. The Large-Type screen displays the word.
4. Press **ENT** to hear the word read aloud, or
5. Press **▼** to view the definitions of the word.

6. To return to the original word, press **ESC**. A list appears of the words you viewed most recently on *Reading Pen II*.
7. Scroll up through the list until the original word is highlighted.
8. Press **ENT**. *Reading Pen II* returns you to the original word.

Speak by Section

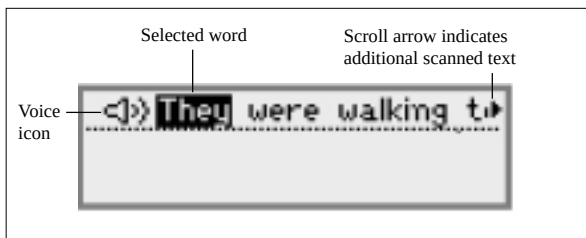
In highlighted mode, the **Speak by Section** option enables you to hear the current section of a word's definitions read aloud:

1. Activate **Speak by Section**. (For instructions, see p. 26.)
2. Long-Press **ENT** to hear the section read aloud.
3. Press **ESC** to abort the reading.

Note: The text is not highlighted while it is pronounced

Word Selection Screen

The Word Selection screen appears when you press **ESC** from the Large-Type screen after scanning in more than one word at a time. It enables you to select the word you want to hear or define, and to hear the entire line read aloud.



Word Selection screen

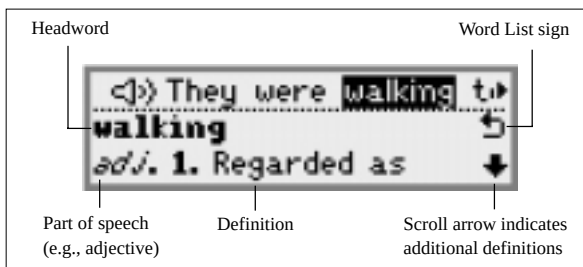
The upper section of the Word Selection screen displays the scanned text in its entirety. Scroll through the text by pressing or . A right scroll arrow at the end of the text indicates that you can scroll right to view its continuation. Similarly, when you scroll right, a left scroll arrow indicates that you can scroll left to view the previous section of the text. When a word is highlighted you can:

Display the Word in Large Type

Press to display the highlighted word in large type. Once the Large-Type screen appears you can perform any of the Large-Type screen functions for the selected word.

Display the Definitions

Press to display the definitions of the highlighted word in the lower half of the Word Selection screen. Scroll through the definitions using the and arrows. The arrows in the lower right of the screen indicate in which direction(s) you can scroll to view more of the definitions.



Word Selection screen with definition displayed

Return to Input Screen

Press **ESC** to return to the Input screen.

You can scan again while in the Word Selection screen.
The current text is overwritten.

Voice Icon

The Voice icon **<>>** appears to the left of the line of scanned text. When this icon is selected, *Reading Pen II* reads the entire line of text in the upper screen.

1. Press **←** to scroll to the Voice icon to hear the line read aloud.

Note: The text is not highlighted while it is pronounced

2. Press **ENT** to hear the line read aloud again.
3. Press **ESC** to abort the line reading.

Auto Speak

When **Auto Speak** is activated, *Reading Pen II* pronounces each word in the upper section of the screen as you scroll to it. For instructions on activating **Auto Speak**, see **Preferences** in the *Read Pen Menu Options* section, on p. 26.

Dictionary Entries

The dictionary entries displayed in the Dictionary and Word Selection screens contain the following elements, if applicable:

Headword - (main dictionary entry)

Part of speech - (verb, noun, adjective, etc.)

colossal

adj. 1. Of a size, extent, or degree that elicits awe

Alternative spelling - (e.g., American and British English)

ax or axe

n. 1. A tool with a bladed head mounted crosswise

Homonym number - (denotes two or more identical dictionary entries with separate meanings)

Definitions - (definitions of each part of speech)

Word list sign - (signifies homonyms or an ambiguous meaning)

test¹

n. 1. A procedure for critical evaluation; a

Label - (Usage in a specific field, such as mathematics or law)

Sub-definitions - (specific meanings of one definition)

test

4. *Chemistry* *n.* A physical or chemical change by which a

See note

(link to related entry)

motorcar

n. 1. See **automobile**

Bold entry

(derivative of the headword with separate meaning)

communication

C. **communications** used with a *sing.* or *pl.*
verb The art and

When reduced display mode is deactivated, additional elements are displayed. These may include examples of usage, phrasal verbs, idioms and synonyms. For instructions on turning reduced display on and off, see p. 26.

Homonym Number

When the scanned word corresponds to two or more identical dictionary entries with separate meanings, each meaning is a separate entry with its own number.



Word List Sign

The Word List sign appears to the right of the headword when the meaning of the highlighted word is somehow ambiguous. It indicates that you can access a list of alternative dictionary entries from the Dictionary screen when:

- The scanned word corresponds to more than one dictionary entry.
Example: If you scan the word ‘walking,’ *Reading Pen II* enables you to choose between ‘walking’ (adj.) and ‘walk’ (verb and noun).
- The scanned image is incomplete or unclear.
Reading Pen II gives you a list of possible spellings from which to choose.
- The scanned word corresponds to two or more identical dictionary entries with separate meanings (i.e., homonyms)—for example, ‘bear¹’ (verb) and ‘bear²’ (noun).



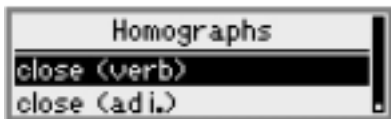
Word list for the word ‘bear’

To use the word list:

1. From the Dictionary screen, press **(ESC)**. The word list for the selected word appears.
2. Scroll to the word you want and press **(ENT)**. The definitions for the selected word appear.
3. To return to the word list, press **(ESC)** again.
4. To exit the list without making a selection, press **(ESC)**.

Homographs

A homograph is a word that has more than one pronunciation with a corresponding separate meaning—for example, ‘close’ (verb) and ‘close’ (adj.). If you scan a homograph when the **Auto Speak** option is activated, *Reading Pen II* displays a homograph list that shows each homograph and its corresponding part(s) of speech.



Homograph list

- If the homograph is part of a scanned sentence, *Reading Pen II* displays the homograph list when you highlight the word in the Word Selection

screen. Scroll to the entry you want and press **ENT**. *Reading Pen II* returns to the Word Selection screen and automatically pronounces the selected word. You can then press **ENT** again to return to the homograph list, reselect the entry, then press **ENT** to display the word in large type screen.

- If the homograph is the only word you have scanned, *Reading Pen II* automatically displays the homograph list. Scroll to the entry you want and press **ENT**. *Reading Pen II* displays the Dictionary screen. Press **ENT** to pronounce the word.

The homograph list does not appear when **Auto Speak** is deactivated.

Menus

Reading Pen II contains two menus, the **Reading Pen Menu** and the **Main Menu**.

Reading Pen Menu Options

The **Reading Pen Menu** contains four menu options: **Dictionary**, **Preferences**, **Help** and **Pen Main Menu**. To display the **Reading Pen Menu**, go to the Input screen and press **ESC**. To return to the Input screen from the **Reading Pen Menu**, press **ESC** again.

Dictionary

The **Dictionary** menu contains a series of dictionary tools:

History

This option displays a chronological list of the most recently displayed words on *Reading Pen II*, with the last word you defined at the top of the list. To select one of these words and view its definition:

1. Select **Dictionary**, then select **History**.
2. Scroll through the list to the word you want. Long-press to scroll through the list more quickly.
3. Press **ENT**. The word appears in the Large-Type screen.
4. From the Large-Type screen, press **▼** to view the definitions for the word.
5. Press **ESC** to return to the History list.
6. Press **ESC** again to return to the **Dictionary** menu.
7. Press **ESC** again to return to the **Reading Pen Menu**.

The History list can store up to 80 words. Once the list is full, the oldest word is deleted from the list to make room for the most recent one.

Adjacent Entries

This option displays a list of all headwords in the current dictionary, placing you on the last word you defined or the last History word you selected. If you haven't defined a word or selected a History word during the current session, it places you on the first word in the dictionary. You can then scroll through the list to find a different word in order to view its definition.

1. Select **Dictionary**, then select **Adjacent Entries**.
2. Scroll to the word you want. Long-press to scroll through the list more quickly.

3. Press **ENT**. The word appears in the Large-Type screen.
4. From the Large-Type screen, press **▼** to view the definitions for the word.
5. Press **ESC** to return to the **Adjacent Entries** list.
6. Press **ESC** to return to the **Dictionary** menu
7. Press **ESC** again to return to the **Reading Pen Menu**.

Select Dictionary

Use this option to change the current dictionary if you have added dictionaries to your *Reading Pen II*.

1. Select **Dictionary**, then select **Select Dictionary**. A menu appears that displays the dictionaries on your *Reading Pen II*.
2. Scroll to the dictionary you want, then press **ENT**. The Input screen appears.

Reset History

Select this option to erase all entries from the History list. *Reading Pen II* returns to the Input screen.

Preferences

Use **Preferences** menu options to adjust dictionary features on your *Reading Pen II*. You can change more than one preference at a time. Once you have changed the preferences, press **ESC** to return to the **Reading Pen Menu**. Preferences are:

Inverse

Select this preference if you are scanning inverse text (light-colored text on a dark background). To toggle **Inverse** on or off, press ,  or ;  = on. When the inverse option is selected, the  icon appears in the top right corner of the Input screen, and the red light in the tip of *Reading Pen II* blinks rapidly.

Reduced Display

This preference determines whether display elements in the current dictionary, such as phrasal verbs and idioms, appear with the definitions in the Dictionary screen. When **Reduced Display** is selected, certain display elements are hidden. (See **Dictionary Guide** in the *Reading Pen II Help* menu, p. 27, for specific details.) To toggle reduced display mode on or off, press ,  or ;  = on. Alternatively, in the Dictionary screen (in normal display mode), press  to toggle reduced display mode on, or  to toggle it off.

Auto Speak

When **Auto Speak** is selected, *Reading Pen II* automatically pronounces the word you select or highlight. To toggle **Auto Speak** on or off, press ,  or ;  = on.

Speak by Section

When **Speak by Section** is selected, *Reading Pen II* reads the current section of a word's definition when you long-press  while in highlight mode of the Dictionary

screen. To toggle **Speak by Section** on or off, press **ENT**, **◀** or **▶**; **[X]** = on.

Line(s) Per Scroll

This preference determines how many lines *Reading Pen II* scrolls at a time in the Definition and Dictionary screens. To change the number of lines per scroll, press **ENT**, **◀** or **▶**. *Reading Pen II* can scroll one, two or three lines at a time.

Help

This menu contains options that display information about the current dictionary. After viewing the information in each option, press **ESC** to return to the **Help** menu, then press **ESC** again to return to the **Reading Pen Menu**. **Help** options are:

Abbreviations Guide

This option displays a list of abbreviations used in the current dictionary. It also indicates what each abbreviation in the list stands for. Scroll through the list, using **▲** or **▼**.

Dictionary Guide

The Dictionary Guide displays information about the dictionary, such as which elements are hidden in reduced display mode. Scroll through the guide, using **▲** and **▼**.

About

The **About** option displays information about *Reading Pen II*, the current dictionary and the text-to-speech software.

Pen Main Menu

Select this option to display the **Main Menu**.

Main Menu Options

The **Main Menu** contains an additional series of options relating to the overall *Reading Pen II* unit. In addition, if you upgrade your *Reading Pen II* and add applications to it, you will be able to access the applications from this menu. See our web site, www.wizcomtech.com, for details of available upgrades.



Reading Pen

The **Reading Pen** option displays *Reading Pen II*'s Input screen so you can begin using the dictionary.



PC-Controlled Communications

The **PC-Controlled Communications** option appears in the **Main Menu** only if your *Reading Pen II* has been upgraded by the addition of a flash memory card.



Preferences

Reading Pen II contains default settings for scanning and interface languages, the menu type and other features.

You can change these default settings by selecting **Preferences** from the **Main Menu**. **Preferences** contains the following options:



Scanning Language

The scanning language is the language *Reading Pen II* is set to recognize. Use this option to change the default scanning language of *Reading Pen II* if additional dictionaries in other languages have been added to your Pen.

1. Select **Scanning Language**.
2. Scroll to the required language and press **ENT**.



Interface Language

The interface language is the language in which the menus and messages appear. Use this option to change *Reading Pen II*'s interface language if additional dictionaries in other languages have been added to your Pen.

1. Select **Interface Language**.
2. Scroll to the language you want and press **ENT**.



Communications Settings

Communications Settings appears in the **Preferences** menu only if your *Reading Pen II* has been upgraded by the addition of a flash memory card.



Voice Settings

The **Voice Settings** menu contains options for controlling the way words are pronounced by *Reading Pen II*:

Volume

Use this option to adjust the volume level of the speaker.

1. Select **Volume**. The adjustment bar appears.
2. Adjust the volume level to the setting you want, using ▲ or ▼.
3. Press **ENT**.

Pitch

Use this option to adjust the pitch of the speaker.

- Select **Pitch**.
- Scroll to the pitch you want, using ▲ or ▼. The higher the number, the higher the pitch.
- Press **ENT**.

Reading Speed

This option enables you to adjust the speed at which

Reading Pen II pronounces words.

- Select **Reading Speed**.
- Scroll to the reading speed you want, using ▲ or ▼.
The higher the number, the faster the speed.
- Press ENT.



Auto Shut-Off Time

Reading Pen II automatically shuts off after 60 seconds if you do not scan or press any key. Use this option to change the automatic shut-off time.

1. Select **Auto Shut-Off Time**.
2. Change the automatic shut-off time, using ▲ or ▼.
3. Press ENT.



Right-/Left-Handed

Use this option to switch between right- and left-handed modes. Switching between these modes rotates the text on the display 180°.

1. Select **Right-/Left-Handed**.
2. Scroll to the mode you prefer, using ▲ or ▼.
3. Press ENT.



Menu Type

Use this option to define whether *Reading Pen II*'s menus appear as **Text Only**, **Icons Only**, or **Text and Icons**.

1. Select **Menu Type**.
2. Scroll to the menu type you prefer, using ▲ or ▼.
3. Press **ENT**.



Long-Press Interval

With a long press - pressing a key for longer than a click - you can perform additional commands. For example, a long press on **ENT** pronounces a highlighted word (see p. 16 for details). Use this option to adjust the amount of time you need to keep a button pressed for a long press.

- Select **Long-Press Interval**; the adjustment bar appears.
- Move the slider to the setting you want, using ◀ or ▶.
- Test the setting by pressing and briefly holding down ▼. If the screen flashes, the setting is fine. If the screen does not flash, either adjust the setting to a faster speed or press longer.



Double-Click Interval

Use this option to adjust the amount of time between the two clicks for a double-click.

1. Select **Double-Click Interval**; the adjustment bar appears.
2. Move the slider to the setting you want, using ◀ or ▶.
3. Test the setting by double-clicking ▼. If the display flashes, the setting is fine. If the display does not

flash, either adjust the setting to a slower speed, or double-click faster.



Contrast

Use this option to adjust the brightness of the display.

1. Select **Contrast**; the adjustment bar appears.
2. Adjust the contrast, using ◀ or ▶. The higher the number, the darker the display.
3. Press **ENT**.



Information

The **Information** option contains a number of items that display information about your *Reading Pen II* unit.

After selecting an item to view information, press **ESC** to return to the **Information** menu.



Memory Status

This option appears in the **Information** menu only if your *Reading Pen II* has been upgraded.



Compact Memory

This option appears in the **Information** menu only if your *Reading Pen II* has been upgraded.

Advanced Features



Battery Status

Select this option to check how much power is left in the batteries. A diagram displays the power level.



Serial Number

Select this option to view the serial number of *Reading Pen II*.



About

Select **About** to view the version number of your *Reading Pen II*, copyright information and the version number of *Reading Pen II*'s operating system.

Advanced Features

Reading Pen II contains three advanced features that enable you to edit the text you have scanned and to enter text manually. These features are:

- the Opticard
- the Editor
- the Character Bar

Each of these features is described in detail in this section.

The Opticard

Some words and phrases can't be scanned because the letters are too large, are handwritten or are on a background that *Reading Pen II* can't scan. An Opticard is located on the back of *Reading Pen II*'s case. It enables you to enter these words or phrases manually by scanning in letters one at a time using the bar codes.



To use the Opticard:

1. Hold the *Reading Pen II* case horizontally, with the Opticard title on the right. Scan the **Opticard** key in the bottom left corner of the Opticard to activate Opticard mode. When Opticard mode is activated, the light in *Reading Pen II*'s tip blinks rapidly.
2. To enter a letter in lower case, scan the bar code for the corresponding key. The letter appears on the display.
 - To enter an upper-case character (situated left, above the bar code), scan **Shift**, then the letter.
 - Scan **Shift** twice to activate/deactivate Caps Lock. Activating Caps Lock enables you to enter letters in upper case only.
 - To enter a controlled character (situated

- right, above the bar code), scan **Ctrl**, then the letter. Controlled characters can be entered only for the active character set.
- To enter a controlled character in upper case, scan **Ctrl**, then **Shift** (or **Shift**, then **Ctrl**), then the letter.
3. To enter a space, place the cursor in front of the letter that will follow the space, then scan the **spc** key.
 4. To delete the previous character, scan **Shift**, then the **del** key.
 5. Continue scanning in letters as required.
 6. To translate the word you have entered, scroll to **GO** and press **ENT**. The first word of the text appears in large type. You are back in normal scanning mode.

The Editor

Reading Pen II contains two basic input modes: scan only and edit.

Scan Only Mode

When *Reading Pen II* is in scan only mode, the Input screen is displayed, with the input field highlighted. You can scan in text, but cannot edit it.

To edit text, you must activate edit mode:

1. Press **ESC** twice to return to the Input screen from the Large Type screen. The text you scanned in is highlighted.

2. Press **ENT** to go into edit mode. The text is de-highlighted.

Edit Mode

When *Reading Pen II* is in edit mode, the Input screen appears, but the text you have scanned is displayed as regular text with a blinking cursor at the beginning of the field.

Editing Text

Once you are in edit mode, you can edit the text, using the **Edit Menu**, the Character Bar or Opticard.

- To access the **Edit Menu** for the editing commands, press **ESC**.
- To access the Character Bar, press **ENT**. The Character Bar enables you to enter text manually to overwrite or insert characters.

When editing, you can use *Reading Pen II*'s double-click feature to jump to the edge of the scanned text in the input field. Double-click **◀** to jump to the beginning of the text or **▶** to jump to the end.

Adding to Scanned Text

You can scan in additional text while in edit mode, retaining the original text while inserting the new text at the cursor location:

1. If the input cursor isn't located at the point where you want to insert the new text, use **◀** or **▶** to scroll to the desired input location.

2. Scan in the new text in the same manner as the original text.

Note: *Reading Pen II allows you to scan in a maximum of 200 characters.*

When you scan in text while in edit mode, the new text is highlighted.

- Press **ENT** to erase the highlighted text (i.e., so that you can rescan it).
- Press any other key to de-highlight the text and scroll in the direction of the arrow.
- Select **GO** to go to the definition of the text.
- Select **CLEAR** to delete all text in the input field.

Scanning Hyphenated Words

Use edit mode to scan in hyphenated words appearing at the end of one line and the beginning of the next, such as in the sample sentence below:

Scan hyphenated words without the slightest hitch

1. Press **ENT** to activate edit mode.
2. Scan the first line.
3. With the text you have just scanned still highlighted, scan the second line. *Reading Pen II* automatically connects two parts of the hyphenated word (with + out = without).

4. Select **GO**. The first word of the text appears in large type.

Editing Commands

Press **ESC** while in edit mode to display the Edit Menu. The menu contains the following commands:

Resume Editing

Select this command to exit the **Edit Menu** and return to the entry in edit mode to resume editing or scanning.

To exit the **Edit Menu**, press **ESC** again. *Reading Pen II* returns to scan only mode.

Activate Overwrite Mode

Selecting this command toggles *Reading Pen II* to overwrite mode so that you can overwrite existing text, using the Character Bar or Opticard. The **Activate Overwrite Mode** option changes to **Activate Insert Mode** when selected.

When *Reading Pen II* is in insert mode, a blinking cursor appears between two characters. If you add a character or characters using the Character Bar or Opticard, they are inserted at the cursor location.

When *Reading Pen II* is in overwrite mode, the current character is highlighted. Adding characters using the Character Bar or Opticard overwrites the text starting at the highlighted character.

Clear Text

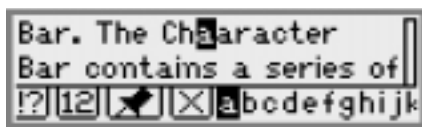
Select **Clear Text** to delete the text from the Input screen. *Reading Pen II* returns to the Input screen, in edit mode.

Note: *Reading Pen II* **must** be in edit mode in order to access the **Edit Menu**.

The Character Bar

The Character Bar enables you to enter new text manually, or to overwrite or insert characters in the scanned text. The Character Bar can be activated only if *Reading Pen II* is in edit mode. To activate it, press **ENT**.

The Character Bar operates in either insert mode or overwrite mode, according to the setting in the **Edit Menu**.



The Character Bar

The Character Bar contains the alphabet (in lower case), as well as the following buttons:



Punctuation

If you scroll to the Punctuation button and press **ENT**, it becomes the active sequence and a series of punctuation marks is displayed.



Numbers

If you scroll to the Numbers button and press **ENT**, it becomes the active sequence and numbers 0-9 are displayed.



Alphabet

If you scroll to the Numbers or Punctuation button and press **ENT**, it becomes the active sequence and is replaced by the Alphabet button (displayed in Latin characters or the relevant character set). To reselect the alphabet as the active sequence, scroll to the Alphabet button and press **ENT**.



Multiple Characters

When the Multiple Characters button appears, you can enter more than one character at a time. Multiple characters is the default mode.



Single Character

If you scroll to the Multiple Characters button and press **ENT**, it toggles to the Single Character button and you can enter only one character at a time, using the Character Bar.



Delete

The Delete button enables you to delete characters (see p. 44 for instructions).

Note: *If you are in insert mode and the Input field contains the maximum 200 characters, the cursor jumps immediately to the Delete button when you access the Character Bar. It won't move from the Delete button until you delete a character from the field. If you delete all characters in the field, the Character Bar disappears automatically.*

In addition, the end of the alphabet sequence contains the following symbol:



Insert Space

If you scroll to the Insert Space symbol and press ENT , it enters a space in the text or overwrites a character with a space.

Using the Character Bar

To enter multiple characters:

1. Press ESC until you return to the Input screen, then press ENT to activate edit mode.
2. Scroll to the location in the field where you want to insert or overwrite a character.

3. Press **ESC** to access the Character Bar.
4. Scroll to the first character you need and press **ENT**.
5. Repeat Step 4 for each additional character you need.

To enter one character at a time:

1. Press **ESC** until you return to the Input screen, then press **ENT** to activate edit mode
2. Scroll to the location in the field where you want to enter a character.
3. Press **ENT** to access the Character Bar.
4. Scroll to the Multiple Characters button and press **ENT**. The Character Bar toggles to single character mode. It remains in this mode until you scroll to the Single Character button and press **ENT** to reactivate the Multiple Characters button.
5. Scroll to the required character in the Character Bar.
6. Press **ENT**. The new character is entered at the cursor location.

To enter a variation of a character (e.g. in upper case or with an accent added):

1. Scroll to the letter in the Character Bar.
2. Press **▲** or **▼**. The Character Bar is replaced by a list of variations for the selected letter. Pressing **▲** places the cursor on the upper case variation (see below); pressing **▼** places the cursor on the lower-case variation.



Additional Information

3. Scroll to the variation you want, using ◀ or ▶.
4. Press **ENT**.

Note: To toggle out of the sequence for the selected letter without making a selection, press ▲ or ▼ again.

To delete a character or characters:

1. Scroll to the character you want to delete. If *Reading Pen II* is in insert mode, the cursor is positioned before the character. If *Reading Pen II* is in overwrite mode, the character is highlighted.
2. Press **ENT** to access the Character Bar.
3. Make sure you are in multiple characters mode if you want to delete more than one character.
4. Scroll to the Delete button and press **ENT**.
5. If you are deleting more than one character, press **ENT** for each character in the sequence that you want to delete.

Additional Reading Pen II Information

Care and Cleaning

Your *Reading Pen II* conforms to the highest standards of craftsmanship and manufacture. To ensure its continuing excellent performance, please adhere to the following instructions for care and cleaning:

- Protect your *Reading Pen II* from direct sunlight, heat, dampness and dust. Do not drop or knock the device; keep it in its protective plastic case to avoid scratches. **ALWAYS** replace the tip's protective cover when not in use.
- Clean *Reading Pen II* only with a soft, dry cloth. Never use a wet cloth or solvents such as benzene or diluting agents.
- **NEVER** clean, wipe or tamper with *Reading Pen II*'s tip. It contains a sensitive electronic eye that could become damaged.
- Should your *Reading Pen II* require servicing, contact the retail outlet where you purchased your unit.

Batteries

Reading Pen II uses two AAA batteries. To check the batteries, select **Battery Status** from the **Information** menu in the *Reading Pen II* **Main Menu**.

If the batteries are low, a picture of a battery with a slash through it appears on the *Reading Pen II* display. When the batteries are about to run out, *Reading Pen II* shuts down automatically.

When replacing batteries, use only high-quality, alkaline batteries, or rechargeable nickel cadmium batteries.

Technical Data

Processor	ARM 7 TDMI
RAM memory	64 to 192KB
ROM memory	8MB minimum
Socket for flash memory cards	2MB/4MB/8MB (upgradeable)
Serial communications	IrDA and RS232
Optic head	128 pixels linear array image sensor 400 DPI resolution
Display dimensions	61mm x 20mm/2.4" x .8" 122 x 32 pixel resolution
Supply voltage	Two 1.5v AAA batteries
Weight	90 grams/3 oz. (not including batteries and/or flash memory card)
Size	Length (with cover): 163 mm/6.4" Width: 38 mm/1.5" Height: 23 mm/1"

- Low power consumption
- Compliant to FCC class B
- Compliant to CE standards
- UL listed

Troubleshooting

Problem:

Reading Pen II doesn't scan.

Solutions:

- Check to see whether *Reading Pen II* is turned on and is in scanning mode, and the protective cover has been removed from the tip.
- Check whether you are scanning regular text in inverse text mode, or inverse text in regular text mode.
- If you previously were using the Opticard, make sure you switched out of Opticard mode prior to returning to normal scanning.

Problem:

An error message, "Word not found.", appears every time you scan.

Solution:

Verify that you are scanning English text.

Problem:

The text in *Reading Pen II* display appears upside down.

Solution:

Adjust *Reading Pen II* to right- or left-handed use.

Problem:

The words you want to scan are in a format too large or small to scan, or the text is printed unclearly.

Solution:

Use the Opticard.

Problem:

An error message, “Excessive lighting.”, appears on the display.

Solution:

Move *Reading Pen II* away from the strong light source (such as sun, lamp, etc.) shining directly on the tip.

Problem:

An error message, “Scanned too fast.”, appears on the display.

Solution:

Scan more slowly.

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FCC COMPLIANCE NOTICE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The FCC Wants You to Know:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- a) Reorient or relocate the receiving antenna.
- b) Increase the separation between the equipment and receiver.
- c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- d) Consult the dealer or an experienced radio/TV technician.

FCC Warning

Modifications not expressly approved by the manufacturer could void the user authority to operate the equipment under FCC Rules.

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